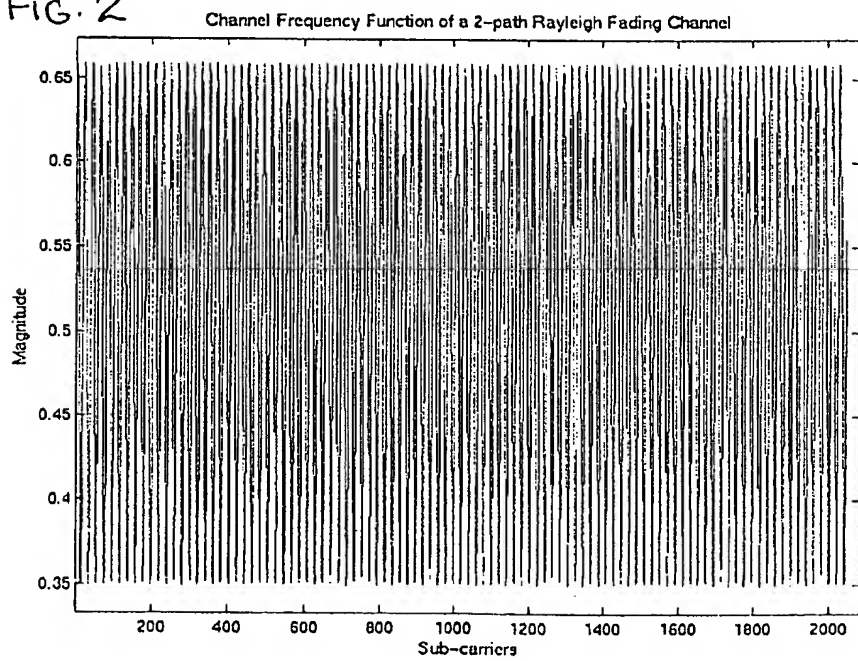


FIG. 2



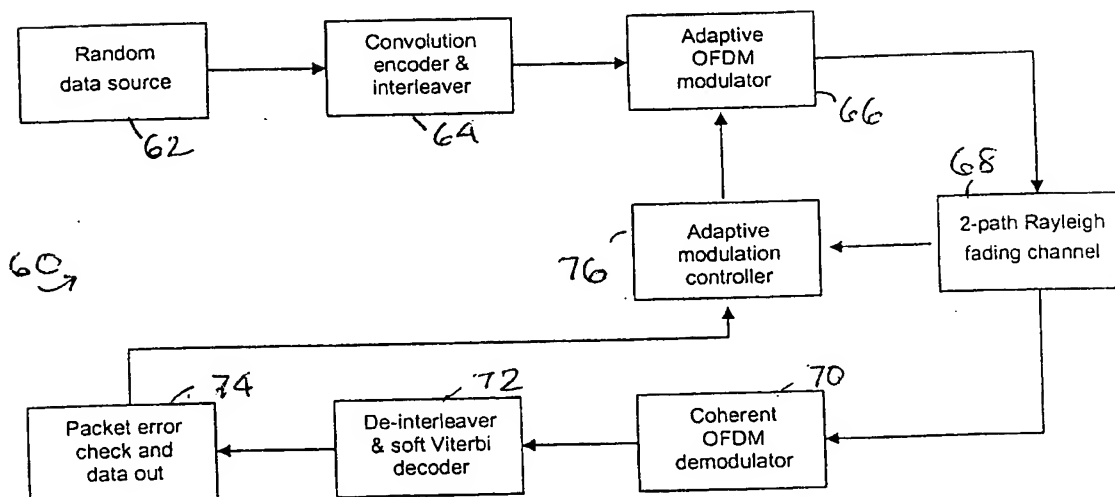
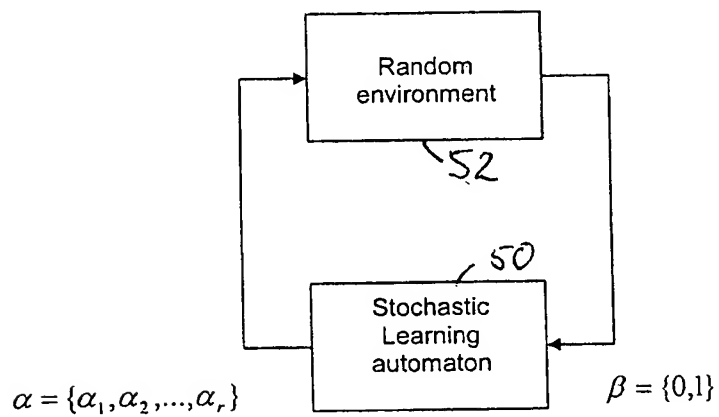
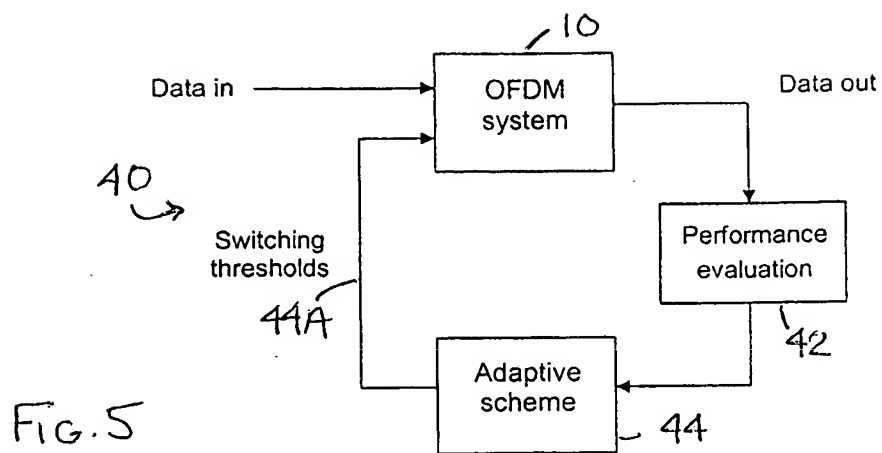


FIG. 8

BER - 1/2 rate coding, 96 bits per packet
Fixed modulation scheme
AWGN channel

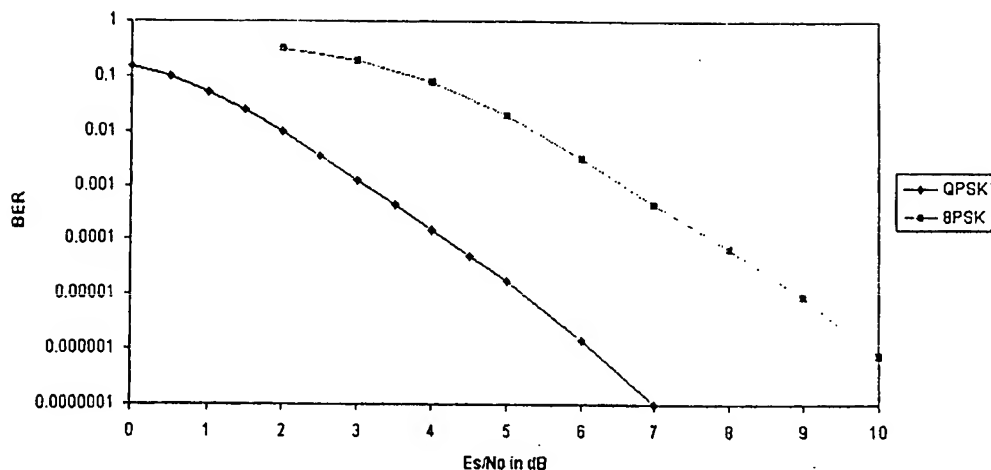


FIG. 9

TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive QPSK/8PSK modulation, 20 Hz Doppler
Switching threshold set 1-4, mode 1

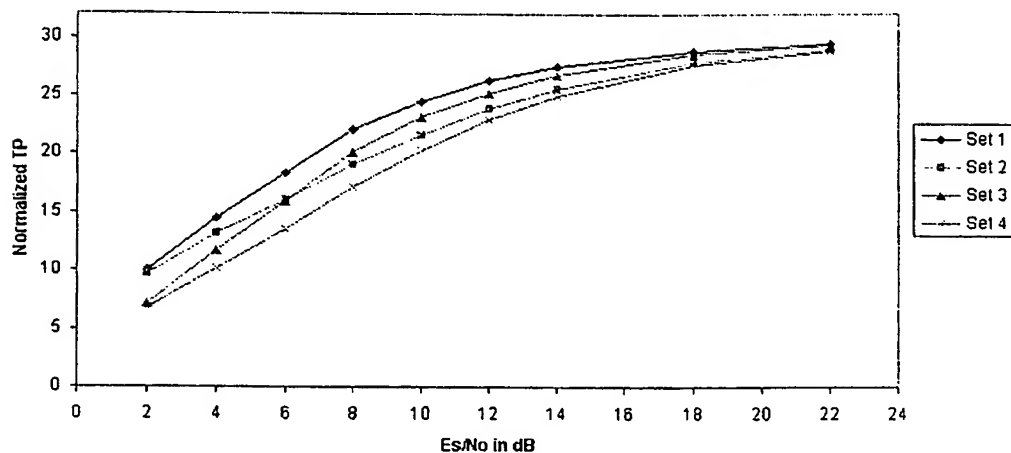


FIG. 10

TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive QPSK/8PSK modulation, 20 Hz Doppler
Switching threshold set 1-4, mode 2

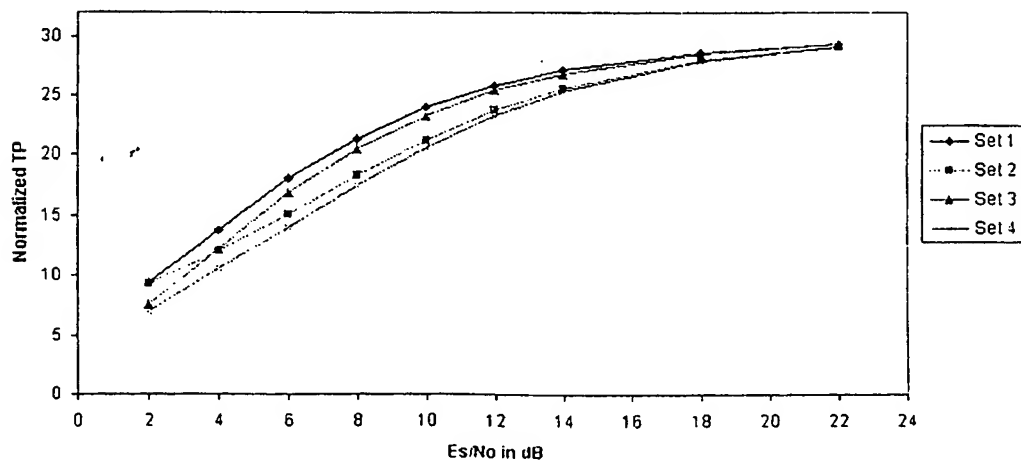


Fig. 11

TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Fixed QPSK and 8PSK modulation scheme
20 Hz Doppler, mode 1

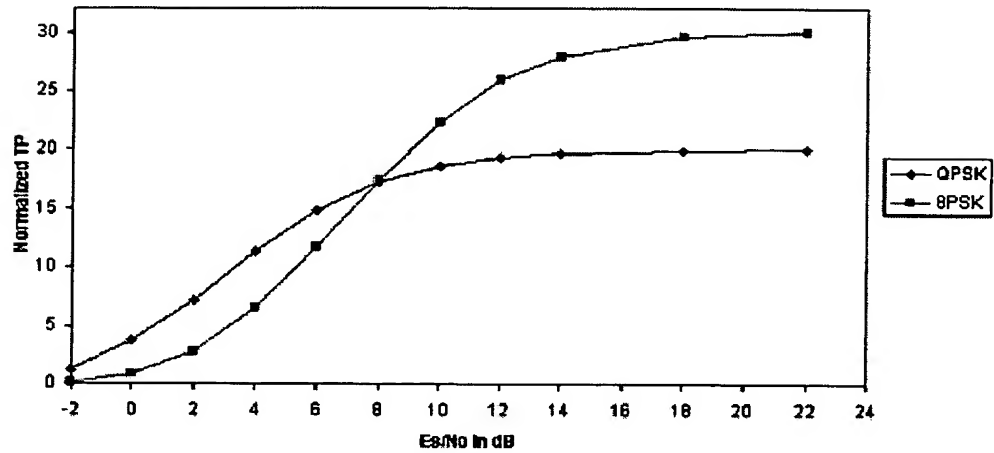


Fig. 12

TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Fixed QPSK and 8PSK modulation scheme
20 Hz Doppler, mode 2

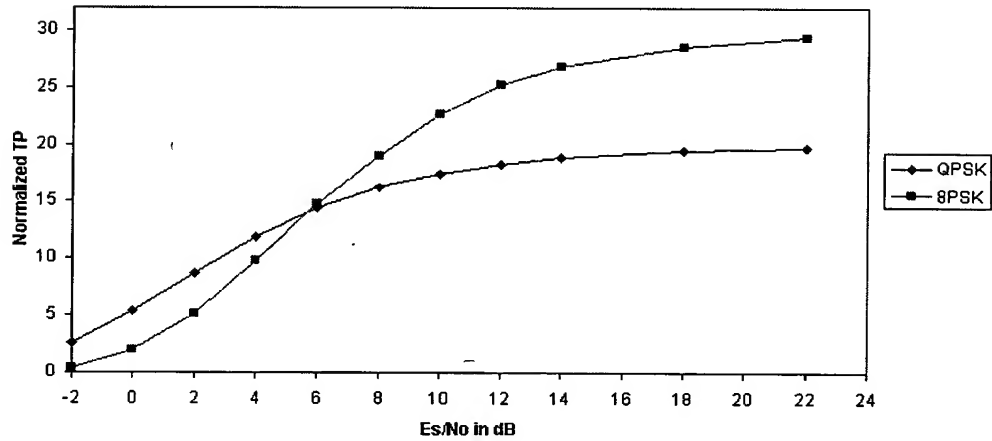
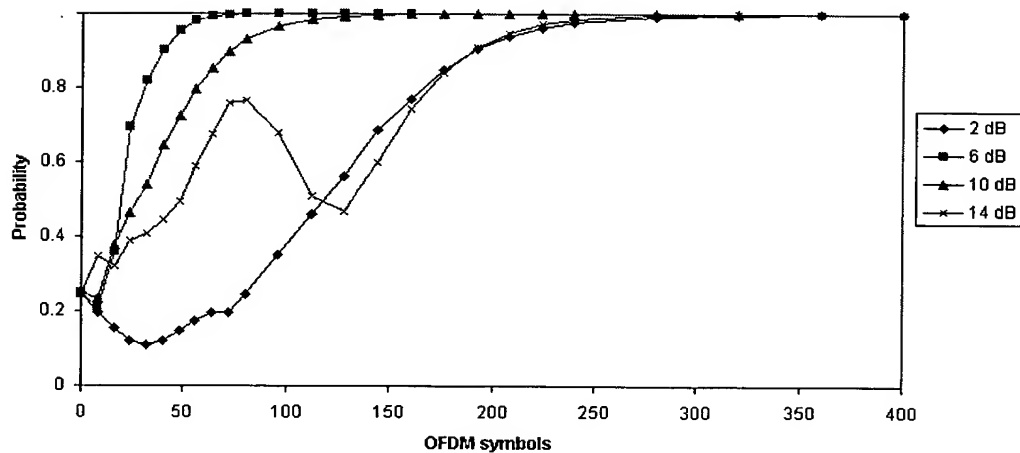


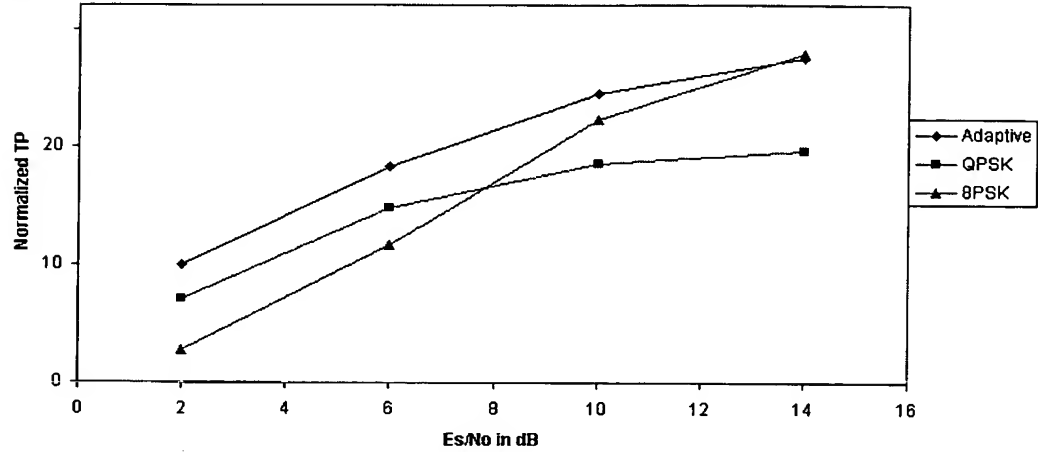
Fig. 13

Probability convergence of desired action
1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 1



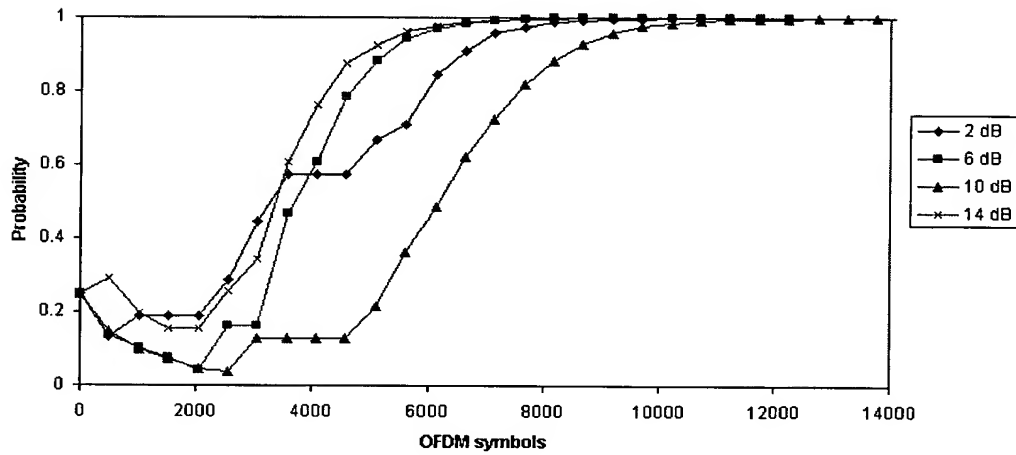
TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation with automaton-selected switching thresholds and
fixed QPSK & 8PSK modulations. 20 Hz Doppler, mode 1

Fig. 14



Probability convergence of desired action
1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 2

Fig. 15



TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation with automaton-selected switching thresholds and
fixed QPSK & 8PSK modulations. 20 Hz Doppler, mode 2

Fig. 16

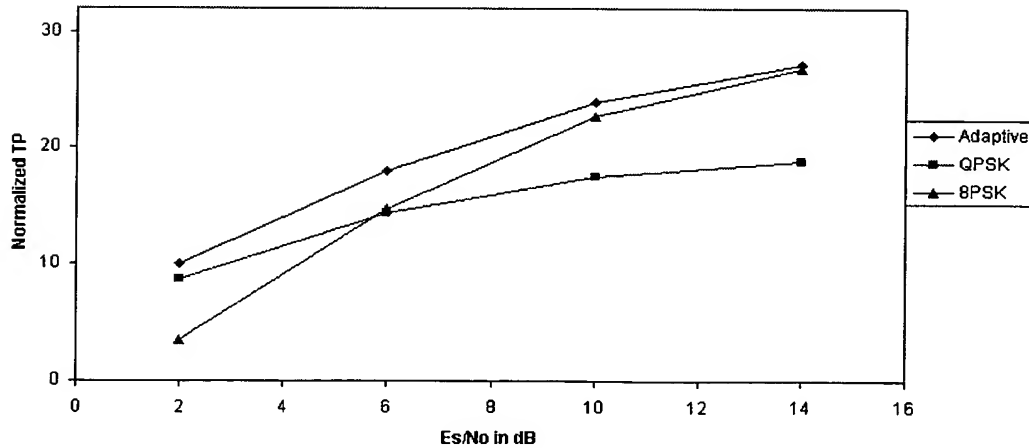


Fig. 17
 Average percentage loss of TP while learning scheme converges
 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation, 20 Hz Doppler, mode 1

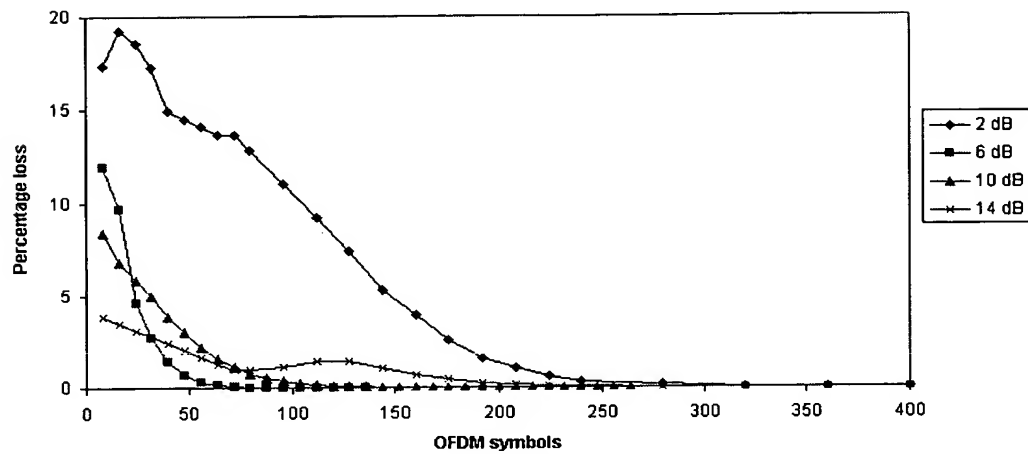


Fig. 18
 Average percentage loss of TP while learning scheme converges
 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation, 20 Hz Doppler, mode 2

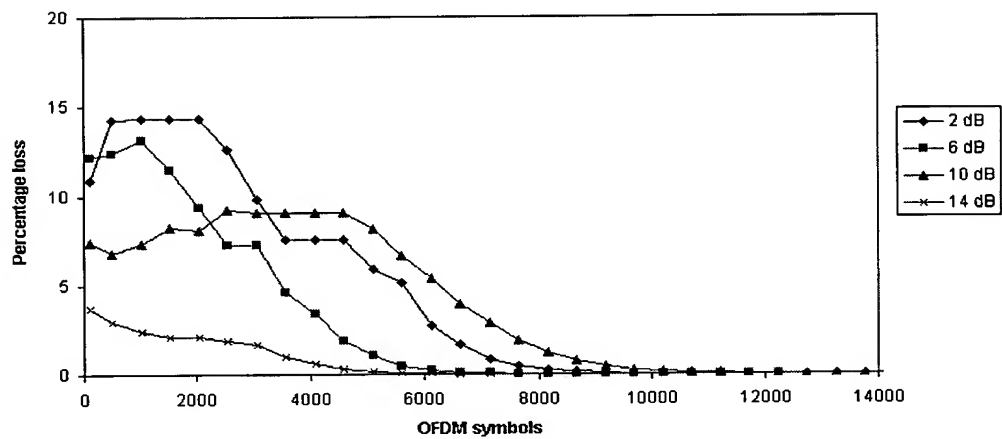


FIG. 19

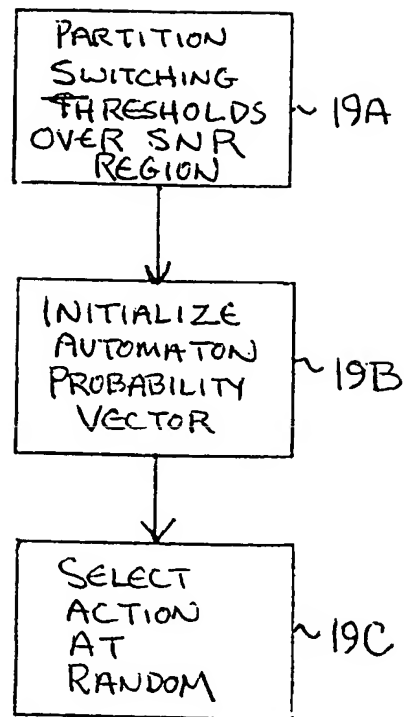


FIG. 20
(MODE 1)

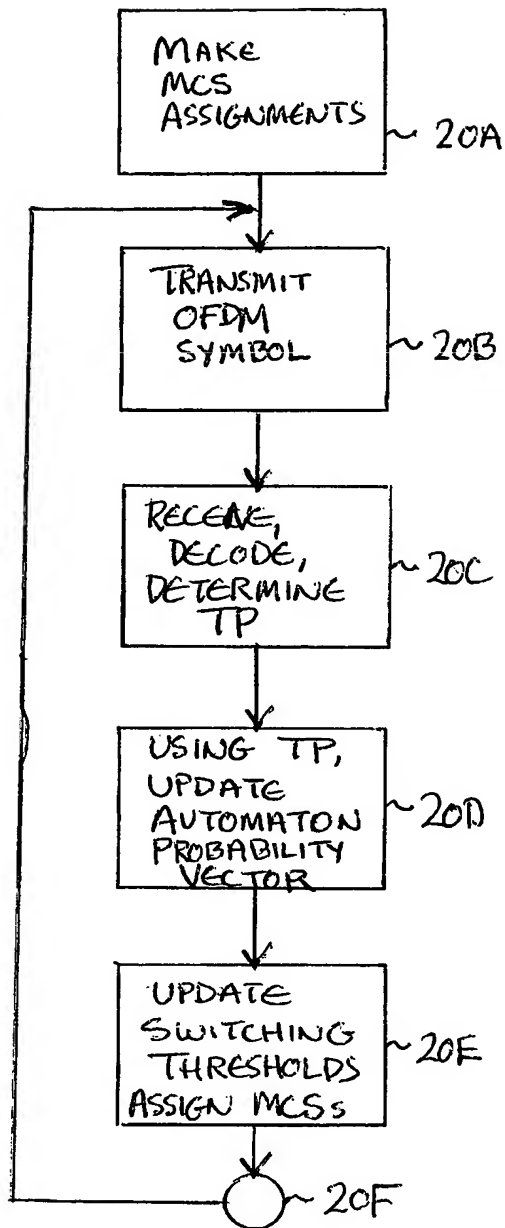


FIG. 21
(MODE 2)

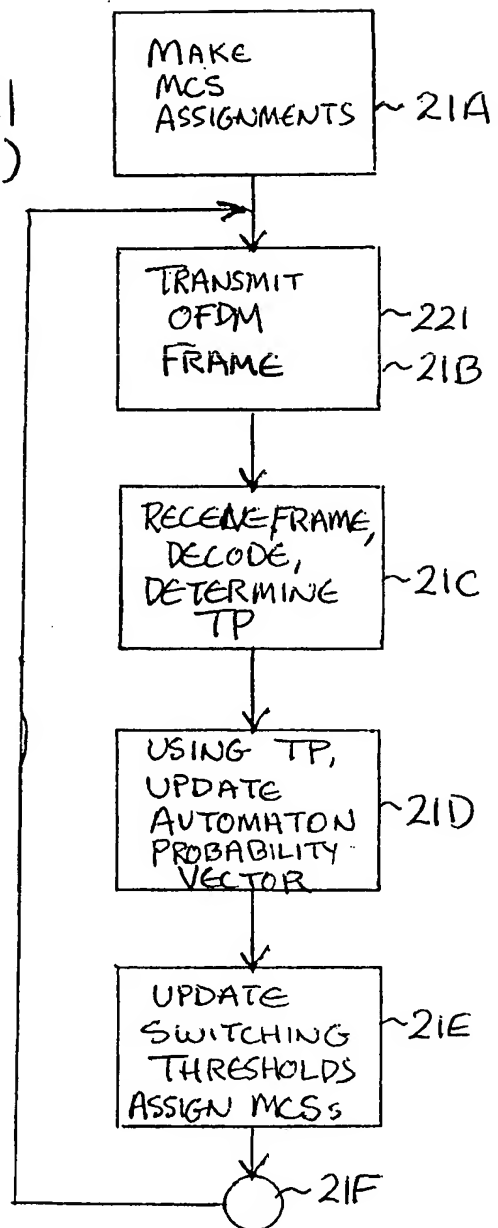
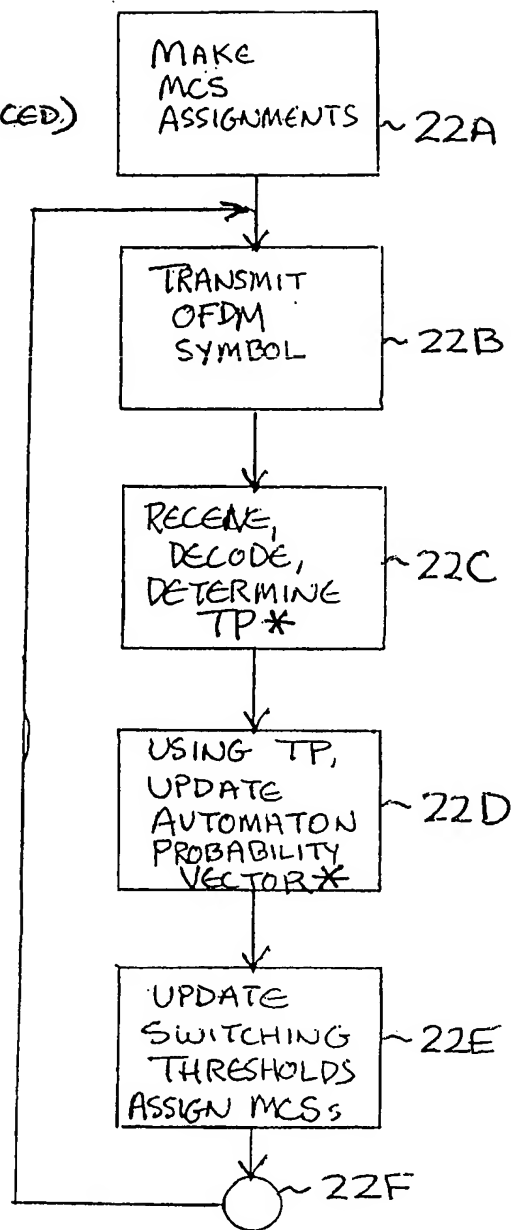
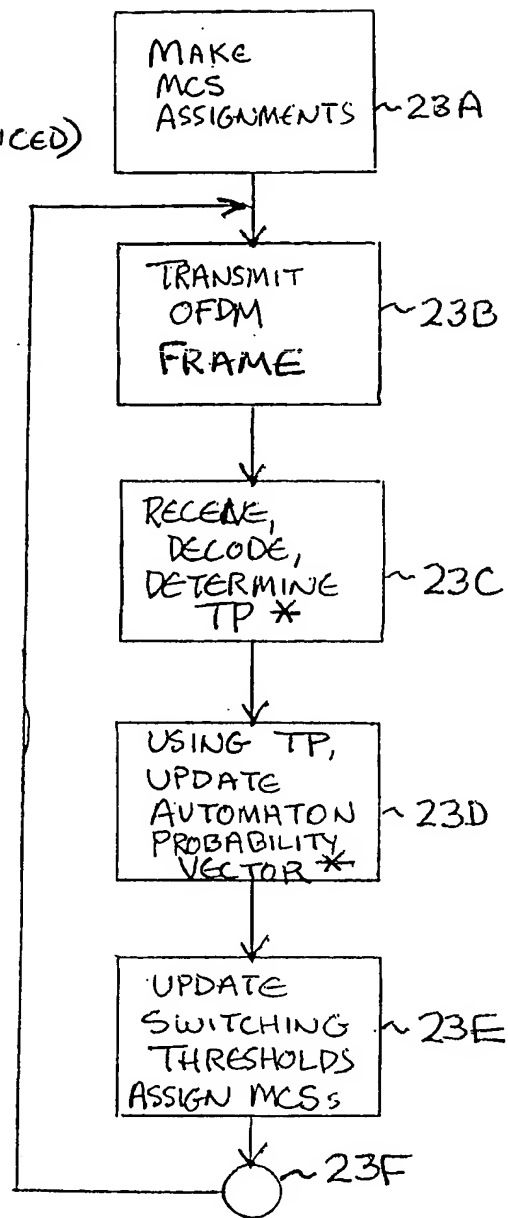


FIG. 22
(MODE 1 ENHANCED)



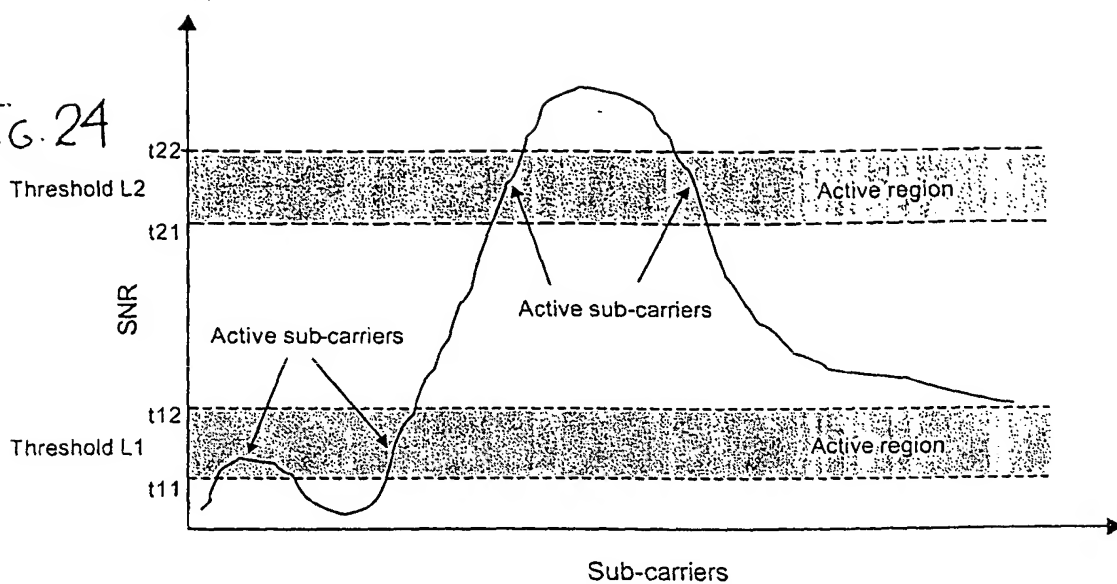
* PER PACKET

FIG. 23
(MODE 2 ENHANCED)



* PER ACTIVE PACKET

FIG. 24



Probability convergence of desired action, enhanced adaptive scheme
 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation, 20 Hz Doppler, mode 1

FIG-25

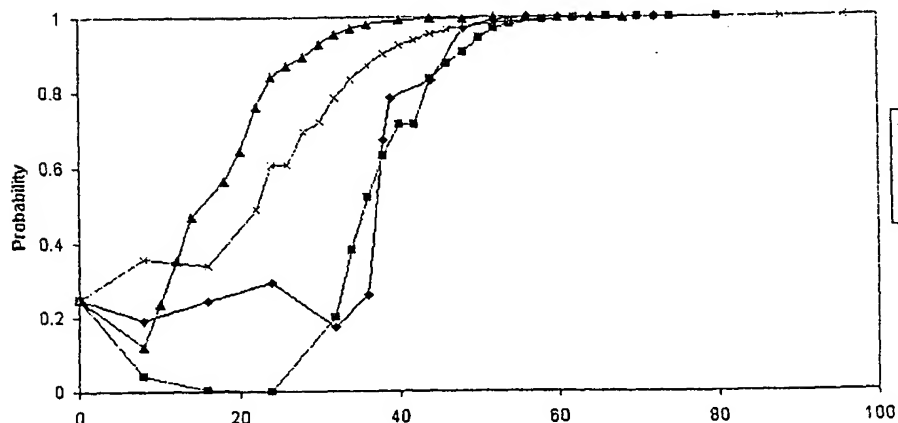


Fig. 26

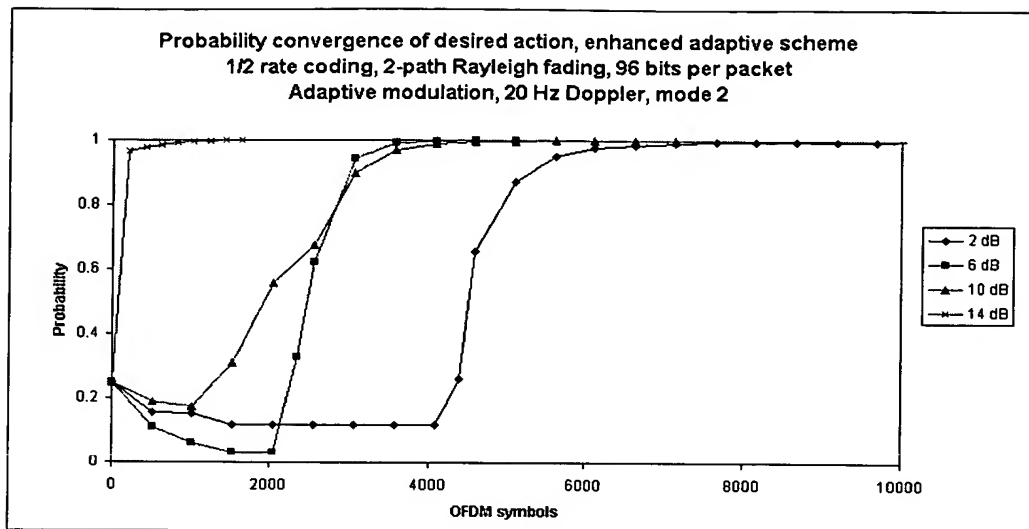


Fig. 27

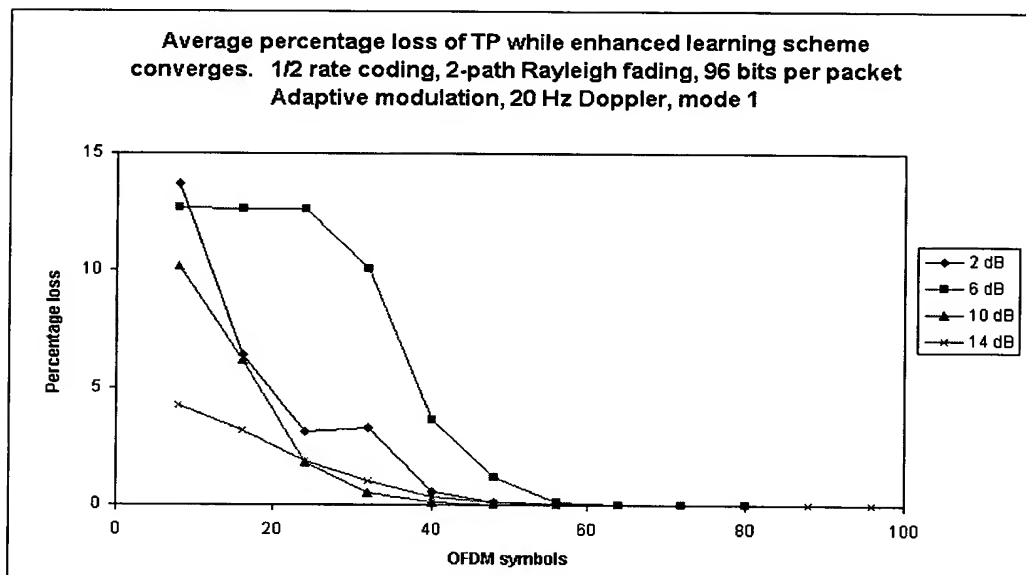


Fig. 28

